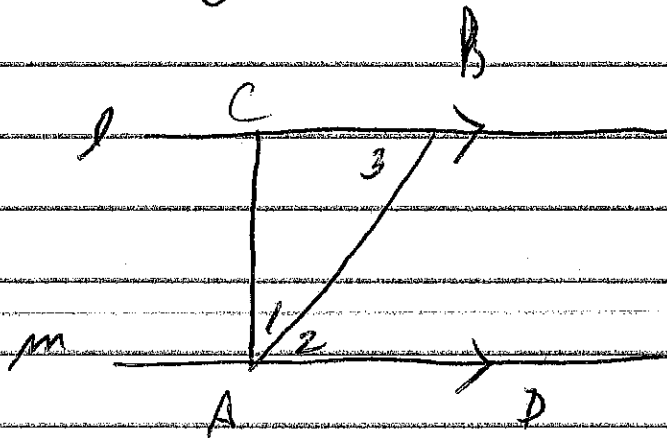
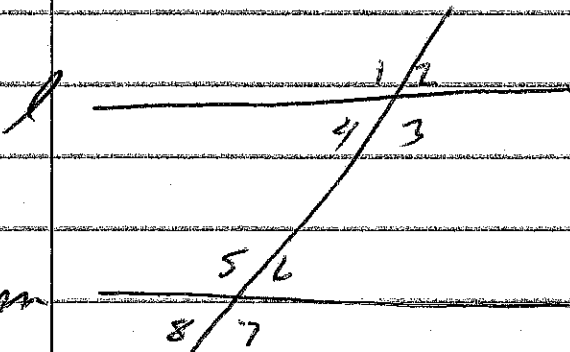


Proofs



G: $l \parallel m$; \overline{AB} bis. $\angle CAD$

P: $\angle 3 \cong \angle 1$

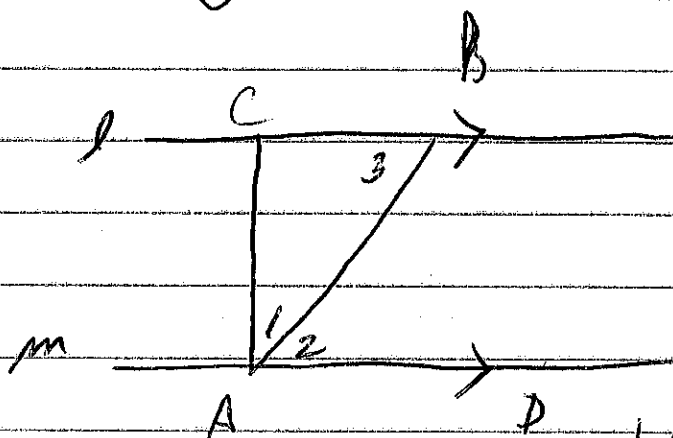


G: $l \parallel m$

P: $\angle 1 + \angle 6$ are suppl.

Key

Proofs



G: $l \parallel m$; \overline{AB} bis. $\angle CAD$

P: $\angle 3 \cong \angle 1$

S.

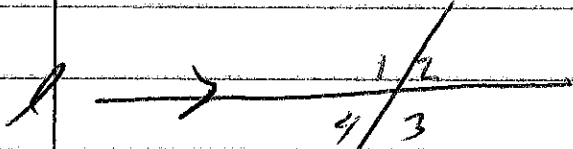
- ① $l \parallel m$ \overline{AB} bis. $\angle CAD$
- ② $\angle 3 \cong \angle 2$
- ③ $\angle 2 \cong \angle 1$
- ④ $\angle 3 \cong \angle 1$

① Given

② If \parallel , alt int $\angle s \cong$

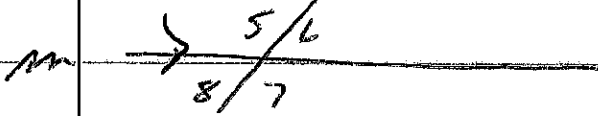
③ def of \angle bis

④ transitive



G: $l \parallel m$

P: $\angle 1 + \angle 6$ are suppl.



S.

- ① $l \parallel m$
- ② $\angle 6 + \angle 3$ are suppl.
- ③ $\angle 3 \cong \angle 1$
- ④ $m\angle 3 + m\angle 6 = 180$
- ⑤ $m\angle 3 = m\angle 1$
- ⑥ $m\angle 1 + m\angle 6 = 180$
- ⑦ $\angle 1 + \angle 6$ are suppl.

(Not the only way)

① Given

② If \parallel , s-side int $\angle s$ are suppl.

③ Vert. $\angle s \cong$

④ def of suppl.

⑤ def of \cong

⑥ subst

⑦ def of suppl.